Rec'd PO

REC'D 2 9 MAR 2005

WIPO

PCT

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 9516-207-228	FOR FURTHER ACTION		on of Transmittal of International examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/month/year)		Priority date (day/month/year)				
PCT/US03/35545	06 November 2003 (06.11.2003)		06 November 2002 (06.11.2002)				
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC						
IPC(7): A61K 31/44, 31/425, 31/415, 31/40 and US Cl.: 514/301, 339, 373, 387, 412, 417							
Applicant							
CELGENE CORPORATION							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. 							
2. This test of a color of sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a	total of sheets.						
3. This report contains indications relating to the following items:							
I Basis of the report							
II Priority							
III Non-establishme	nent of report with regard to novelty, inventive step and industrial applicability						
IV Lack of unity of	invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial							
applicability; citations and explanations supporting such statement VI Certain documents cited							
VII Certain defects in the international application							
VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of this report					
04 June 2004 (04.06.2004)		13 March 2005 (13.03.2005)					
Name and mailing address of the IPEA/U Mail Stop PCT, Attn: IPEA/ US	S Author	rized officer	Santanes (1				
Commissioner for Patents P.O. Box 1450		ond J. Henley I	Jaupence For				
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. 571-272-0600						
Form PCT/IPEA/409 (cover sheet)(July 1998)							

INTERNATIONAL PRELIMINAL XAMINATION REPORT

International application	
PCT/US03/35545	,

I.	Basi	is of the report				
⊢—		regard to the elements of the international application:*				
ļ <u>.</u> .	\square	the international application as originally filed.				
ļ						
		the description:				
		pages 1-65 as originally filed				
		pages NONE , filed with the demand				
	K 7	pages NONE, filed with the letter of				
	\boxtimes	the claims:				
		pages 66-73, as originally filed				
		pages NONE , as amended (together with any statement) under Article 19				
		pages NONE, filed with the demand				
		pages NONE , filed with the letter of				
		the drawings:				
		pages NONE , as originally filed				
		pages NONE , filed with the demand				
		pages NONE , filed with the letter of				
	ш	the sequence listing part of the description:				
		pages NONE, as originally filed				
		pages NONE , filed with the demand				
		pages NONE , filed with the letter of				
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the				
	iangu	lage in which the international application was filed, unless otherwise indicated under this item				
	These	e elements were available or furnished to this Authority in the following language which is:				
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).				
	亓	the language of publication of the language of publication and the language of publication of the language of the lan				
	H	the language of publication of the international application (under Rule 48.3(b)).				
		the language of the translation furnished for the purposes of international preliminary examination (under Rules				
		33.2 and/or 33.3).				
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the				
j	intern	national preliminary examination was carried out on the basis of the sequence listing:				
		contained in the international application in printed form.				
j		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.				
ĺ						
•	— .	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
ı						
- [The statement that the information recorded in computer readable form is identical to the written sequence listing				
	1	has been furnished.				
4. [<u> </u>	The amendments have resulted in the cancellation of:				
		the description, pages <u>NONE</u>				
	- 1	the claims, Nos. <u>NONE</u>				
	1	the drawings, sheets/ fig NONE				
ء ٦	╗,					
· . L	ا	This report has been established as if (some of) the amendments had not been made, since they have been considered to go				
₹ Ra	niare	neyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
his i	eport	ment sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in				
** A	ny rep	as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Placement sheet containing such amendments must be referred to under item 1 and annexed to this report.				
	-	о под тероп.				



International application PCT/US03/35545

citations and explanations supporting s 1. STATEMENT	uch statement	
Novelty (N)	Claims 1-32	YES
	Claims NONE	NO
Inventive Step (IS)	Claims 1-32	YES
	Claims NONE	NO
Industrial Applicability (IA)	Claims 1-32	YES
	Claims NONE	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-32 meet the criteria under PCT Article 33(2) for novelty because the prior art fails to teach the presently claimed methods for treating, managing or preventing a specific cancer or disease associated with undesired angiogenesis or for reducing or avoiding an adverse effect associated with the administration of a second active ingredient in a patient suffering from a specific cancer or radiation therapy or a kit useful in such methods.

Claims 1-32 meet the criteria under PCT Article 33(3) for inventive step because the prior art fails to teach or suggest the presently claimed methods for treating, managing or preventing a specific cancer or disease associated with undesired angiogenesis or for reducing or avoiding an adverse effect associated with the administration of a second active ingredient in a patient suffering from a specific cancer or radiation therapy or a kit useful in such methods.

Claims 1-32 meet the criteria under PCT Article 33(4) because the presently claimed methods for treating, managing or preventing a specific cancer or disease associated with undesired angiogenesis, for reducing or avoiding an adverse effect associated with the administration of a second active ingredient in a patient suffering from a specific cancer or radiation therapy and a kit useful in such methods would have applicability in the medical industry.

Form PCT/IPEA/409 (Box V) (July 1998)

International applicatio
PCT/US03/35545

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 1-18 and 21-26 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because of the following reasons.

The present specification is evaluated by the Examiner as directed by the Court in *In re Marzocchi et al.*, 169 USPQ 367 (CCPA 1971):

"Specification disclosure which contains teaching of manner and process of making and using the invention in terms corresponding to the scope to those used in describing and defining subject matter sought to be patented must be taken as in compliance with enabling requirement of first paragraph of 35 U.S.C. 112 unless there is reason to doubt the objective truth of statements contain therein which must be relied on for enabling support; assuming that sufficient reason for such doubt exists, a rejection for failure to teach how to make and/or use will be proper on that basis, such a rejection can be overcome by suitable proofs indicating that teaching contained in specification is truly enabling." (emphasis added).

Here, the objective truth that all specific types of cancer may be treated is doubted because while the state of the art is relatively high with regard to the treatment of specific cancer types, the state of the art with regard to treating cancer broadly is underdeveloped. In particular, there is no known anticancer agent or combination of anticancer agents that is effective against all cancer types.

Also, the objective truth that the claimed diseases can be prevented is doubted because the burden of enabling the prevention of a disease would be much greater than that of enabling the treatment of a disease. In the instant case, the specification does not provide guidance as to how one skilled in the art would accomplish the objective of preventing the claimed diseases or how a patient could be kept from every being susceptible to these diseases. Nor is there any guidance provided as to a specific protocol to be utilized in order to show the efficacy of the presently claimed active agents for preventing the claimed diseases.

Specifically, it is highly unlikely, and the Office would require experimental evidence to support the contention that the claim specified active could actually prevent the claimed diseases by simply administering, by any method, an amount of the claim specified active agents. The specification fails to enable one of ordinary skill in the art to practice the prevention of the claimed diseases.

The term "prevention" or "preventing" is synonymous with the term "curing" and both circumscribe methods of absolute success. Since absolute success is not reasonably possible with most diseases, especially those having etiologies and pathophysiological manifestations as complex/poorly understood as the presently claimed diseases, the specification, which lacks an objective showing that any of the claimed diseases can actually be prevented, is viewed as lacking an adequate written description of